

A STARTUP CIRCUIT FOR ANALOG INTEGRATED CIRCUIT

APPLICATIONS

ABSTRACT OF THE DISCLOSURE

5 A startup circuit is used for producing a startup current for an analog
integrated circuit device. The startup circuit includes a first portion including a
diode component and a capacitance component. The first portion is
configured to function as a power supply backup and generate a backup point
voltage. The startup circuit includes a second portion including a current
10 mirror component and a feedback component. The second portion is
configured to generate a startup current using the backup point voltage, such
that the startup current is provided based on the backup point voltage as a
power supply voltage increases from a power off condition or a transient,
thereby keeping an analog circuit alive during transients in power supply for
15 fast recover and operation.